

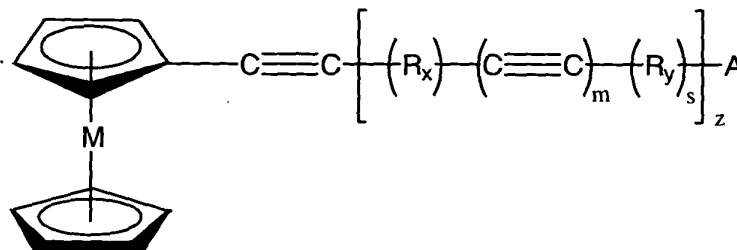


## ABSTRACT

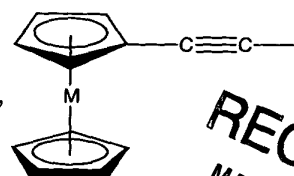
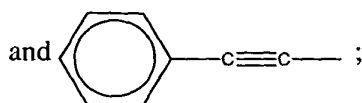
The present invention provides for a composition comprising:

a composition formed by heating to a temperature of from about 300°C and above a mixture of:

- 5 an organometallic composition and an aromatic-acetylene containing compound; and wherein said organometallic composition comprises the formula:



wherein A is selected from the group consisting of H,



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wherein M is a metal;

wherein Rx and Ry are independently selected from the group consisting of an aromatic, a substituted aromatic group and combinations thereof;

wherein m, s and z are  $\geq 0$ ;

wherein m and s are independently determined in each repeating unit;

- 15 wherein said aromatic-acetylene containing composition is 1,2,4,5-tetrakis(phenylethynyl)benzene, 1,2,4-tris(phenylethynyl)benzene or 1,3,5-tris(phenylethynyl)benzene; and

wherein said organometallic composition and said aromatic-acetylene composition are molar mix proportions of between 1 and 99 of said organometallic composition and between 99 and 1 of said aromatic-acetylene composition.

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